## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

## **Listing of Claims:**

- 1. (Currently Amended) A method of manufacturing a probe comprising a cantilever beam, a probe tip and a contact area, said method comprising the steps of:
  - etching a substrate using a first patterned masking layer as an etch mask, said etching creating a mould mold in said substrate;
  - depositing a first layer on said mould mold and on said patterned masking layer;
  - patterning said first layer to form the probe tip and the contact area;
  - partially under-etching the probe tip using said patterned first layer as a hard mask; and
  - peeling off the probe tip from the underlying first patterned masking layer.
- 2. (Original) The method as recited in Claim 1, further comprising the step of using said patterned first layer as a mask to remove said first patterned masking layer.
- 3. (Original) The method as recited in Claim 1, further comprising the step of selectively depositing at least one additional layer on said patterned first layer.
- 4. (Currently Amended) The method as recited in Claim 4 Claim 3, wherein said deposited first layer comprises a metal, and wherein said step of selectively depositing comprises the step of plating.
- 5. (Currently Amended) The method as recited in Claim-5 Claim 4, wherein said deposited first layer comprises Ti, W and Au and said additional layer comprises Ni.
  - 6. (Original) The method as recited in Claim 1, further comprising the steps of:
  - temporarily spacing apart a substantial part of said probe tip and said underlying first patterned masking layer; and
  - attaching a holder chip to said contact area.
- 7. (Original) The method as recited in Claim 1, wherein said partially under-etching of said probe tip under-etches at least the probe tip.

- 8. (Currently Amended) The method as recited in Claim 1, wherein <u>patterning said</u> first layer comprises forming the cantilever beam between the contact area and the probe tip, and said partially under-etching of said probe tip under-etches at least the probe tip and the cantilever beam.
- 9. (Currently Amended) The method as recited in Claim 1, further comprising the steps of:
  - depositing a second layer on said mould mold and on said first patterned masking layer; and
  - patterning said second layer to form the probe tip.
- 10. (Original) The method as recited in Claim 9, wherein said first and said second layers comprise substantially the same material.
- 11. (Original) The method as recited in Claim 10, wherein said material comprises Ti, W and Au.
- 12. (Original) The method as recited in Claim 9, wherein said first and said second layers comprise substantially different material.
- 13. (Original) The method as recited in Claim 12, wherein said first layer comprises Ti, W and Au and said second layer comprises Cr or Diamond.
- 14. (Original) The method as recited in Claim 9, further comprising the step of annealing.
- 15. (Original) The method as recited in Claim 1, wherein said substrate comprises silicon.
- 16. (Original) The method as recited in Claim 1, wherein said first patterned masking layer comprises one of oxides, nitrides, and oxynitrides.
- 17. (Currently Amended) A probe comprising-a cantilever beam, a probe tip and a contact area, the probe being manufactured by a method comprising the steps of:
  - etching a substrate etched using a first patterned masking layer as an etch mask, said etching ereating a mould in said substrate comprising a mold; and
  - -depositing a first layer deposited on said mould mold and on said patterned masking layer;
  - -patterning wherein said first layer is patterned to form the a probe tip, a cantilever beam and a contact area;

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- partially under etching and wherein the probe tip is partially under-etched using said patterned first layer as a hard mask; and
- -peeling off wherein the probe tip is peeled off from the underlying first patterned masking layer.
- 18. (Currently Amended) The probe as recited in Claim 17, wherein the method probe further comprises:
  - depositing-a second layer deposited on said mould mold and on said first patterned masking layer; and
  - -patterning wherein said second layer is patterned to form the probe tip.
  - 19. (Cancelled)
  - 20. (Cancelled)